

# Product Datasheet

## mGluR7 Antibody - BSA Free NLS917

Unit Size: 0.05 ml

Keep as concentrated solution. Aliquot and store at -20C or below. Avoid multiple freeze-thaw cycles.

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### Publications: 2

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**NLS917**

mGluR7 Antibody - BSA Free

Product Information	
Unit Size	0.05 ml
Concentration	1.0 mg/ml
Storage	Keep as concentrated solution. Aliquot and store at -20C or below. Avoid multiple freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS

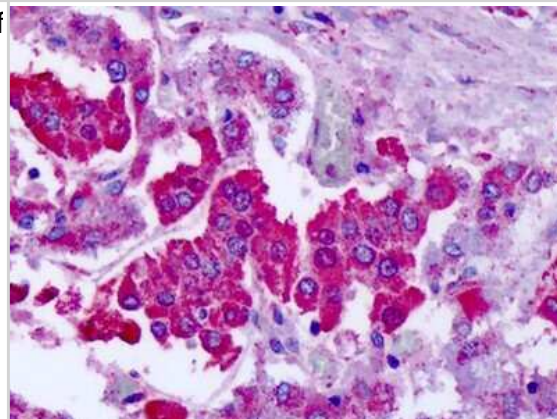
Product Description	
Description	Product can be stored undiluted at 4C for up to 1 month.
Host	Rabbit
Gene ID	2917
Gene Symbol	GRM7
Species	Human, Mouse, Rat, Bovine, Canine, Equine, Primate, Monkey
Reactivity Notes	Predicted cross-reactivity based on sequence identity: Gorilla (100%), Gibbon (100%), Marmoset (100%), Opossum (80%), Turkey (80%), Chicken (80%).
Specificity/Sensitivity	Human mGluR7. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except GRM4 (60%), GRM6 (45%).
Immunogen	Synthetic 20 amino acid peptide from N-terminal extracellular domain of human mGluR7.

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:1000 - 1:10000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 7 ug/ml
Application Notes	Use in ICC/IF reported in scientific literature (PMID: 24858010).

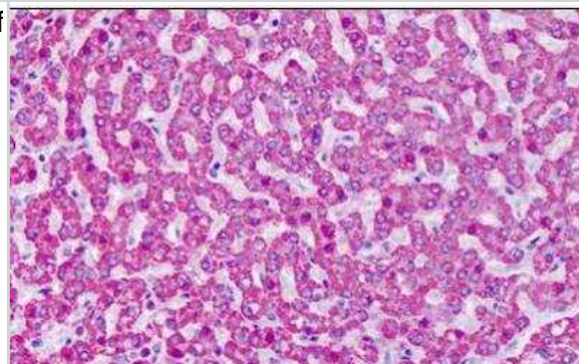


## Images

Immunohistochemistry-Paraffin: mGluR7 Antibody [NLS917] - Analysis of anti-GRM7 / MGLUR7 antibody with human adrenal at dilution 7 ug/ml.



Immunohistochemistry-Paraffin: mGluR7 Antibody [NLS917] - Analysis of anti-GRM7 / MGLUR7 antibody with human liver at dilution 7 ug/ml.



## Publications

Fujikawa T, Petralia RS, Fitzgerald TS et al. Localization of kainate receptors in inner and outer hair cell synapses. *Hear. Res.* 2014-05-21 [PMID: 24858010] (ICC/IF, Rat)

### Details:

Rat cochlear tissue, Fig S6. Cochlear tissue was fixed in 4% paraformaldehyde for 1 h at 4 degrees C and permeabilized with 0.5% Triton X-100 prior to incubation with the Metabotropic Glutamate Receptor pAb.

Friedman RA, Van Laer L, Huentelman MJ et al. GRM7 variants confer susceptibility to age-related hearing impairment. *Hum Mol Genet.* 2009-02-15 [PMID: 19047183] (IHC-P, Human)

### Details:

IHC (paraffin), mouse ear tissue, Fig. 3A,B,C,F; IHC (paraffin), human temporal bone tissue, Fig. 4.

## Procedures

### Immunohistochemistry Protocol for metabotropic glutamate receptor 7 Antibody (NLS917)

Immunohistochemistry Protocol for metabotropic glutamate receptor 7 Antibody (NLS917):

Immunohistochemistry

1. Prepare tissue with formalin fixation and by embedding it in paraffin wax.
2. Make 4-um sections and place on pre-cleaned and charged microscope slides.
3. Heat in a tissue-drying oven for 45 minutes at 60 degrees Celcius.
4. Deparaffinize the tissues by wash drying the slides in 3 changes of xylene approximately 5 minutes each @ RT.
5. Rehydrate the tissues by washing the slides in 3 changes of 100% alcohol approximately 3 minutes each @ RT.
6. Wash the slides in 2 changes of 95% alcohol approximately 3 minutes each @ RT.
7. Wash the slides in 1 change of 80% alcohol approximately 3 minutes @ RT.
8. Rinse the slides in gentle running distilled water approximately 5 minutes @ RT.
9. Perform antigen retrieval by steaming the slides in 0.01M sodium citrate buffer (pH 6.0) @ 99-100 degrees Celcius for 20 minutes.
10. Remove the slides from the heat and let stand in buffer @ RT for 20 minutes.
11. Rinse the slides in 1X TBS-T for 1 minute @ RT.

**\*\*Do not allow the tissues to dry at any time during the staining procedure\*\***

12. Begin the immunostaining by applying a universal protein block approximately 20 minutes @ RT.
13. Drain protein block from the slides and apply the diluted primary antibody approximately 45 minutes @ RT.
14. Rinse the slide in 1X TBS-T approximately 1 minute @ RT.
15. Apply a biotinylated anti-rabbit IgG (H+L) secondary approximately 30 minutes @ RT.
16. Rinse the slide in 1X TBS-T approximately 1 minute at RT.
17. Apply an alkaline phosphatase streptavidin approximately 30 minutes at RT.
18. Rinse the slide in 1X TBS-T approximately 1 minute at RT.
19. Apply an alkaline phosphatase chromagen substrate approximately 30 minutes at RT.
20. Rinse the slide in distilled water approximately 1 minute @ RT.

**\*\*This method should only be used if the chromagen substrate is alcohol insoluble (ie: Vector Red, DAB)\*\***

21. Dehydrate the tissue by washing the slides in 2 changes of 80% alcohol approximately 1 minute each @ RT.
22. Wash the slides in 2 changes of 95% alcohol approximately 1 minute each @ RT.
23. Wash the slides in 3 changes of 100% alcohol approximately 1 minute each @ RT.
24. Wash the slides in 3 changes of xylene approximately 1 minute each @ RT.
25. Apply cover slip.





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### **Products Related to NLS917**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
9530-UR-100	mGluR7 [Unconjugated]

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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